

Why is Rapid Transit Important to Montgomery County?

Maryland Department of Legislative Services
Maryland Department of Budget and Management

Wednesday, June 24th, 2015





Presentation Outline

1. MoCo's Facts & Figures
2. Background and Planning Framework
3. Corridors in Detail
 1. Corridor Cities Transitway
 2. MD 586 (Viers Mill Rd)
 3. MD 355 (Wisconsin Ave-Rockville Pike-N. Frederick Rd)
 4. US 29 (Colesville Rd-Columbia Pike)
4. Complimentary Initiatives
5. Funding and Partnership
6. Bus Tour

1. MoCo's Facts & Figures



Montgomery County Quick Facts

- According to the Texas Transportation Institute, the Washington DC Metro Area is the most congested area in the United States (2013 TTI Report)
- Per SHA's 2013 mobility report, 9 out of 10 of the worst congested links in Maryland are in Montgomery County
- We are the economic engine of the state:
 - With over 1 million people and over 520,000 jobs, Montgomery County has the largest population and the most jobs of any jurisdiction in Maryland
 - Montgomery County receives 20 cents back in total state aid for every dollar in revenues contributed (MD Dept. of Assessments and Taxation)
- Roadway network is mostly built-out

Population and Employment

	<i>Population</i>	<i>Jobs</i>
Existing	1,000,000	521,000
Projected 2040	1,200,000	735,000
Growth	+20%	+41%

**17% of Maryland's
population and
jobs are in
Montgomery
County**

MAJOR EMPLOYERS^{6,7} (2013)

Employer	Product/Service	Employment
National Institutes of Health*	HQ / medical research	16,900
Walter Reed National Military Medical Center*	Medical services	8,500
U.S. Food and Drug Admin.*	HQ / R&D and standards	8,200
Marriott International	HQ / hotels and motels	5,200
Booz Allen Hamilton	Mgt. consulting, technology integration	5,000
Adventist HealthCare	HQ / medical services	5,000
Lockheed Martin	HQ / defense, aerospace	4,700
National Oceanic and Atmospheric Admin.*	HQ / weather analysis and reporting	4,600
Montgomery College	Higher education	3,200
Kaiser Foundation Hlth. Plan	Medical services	3,100
Holy Cross Hospital	Medical services	3,000

MAJOR EMPLOYERS^{6,7} (2013)

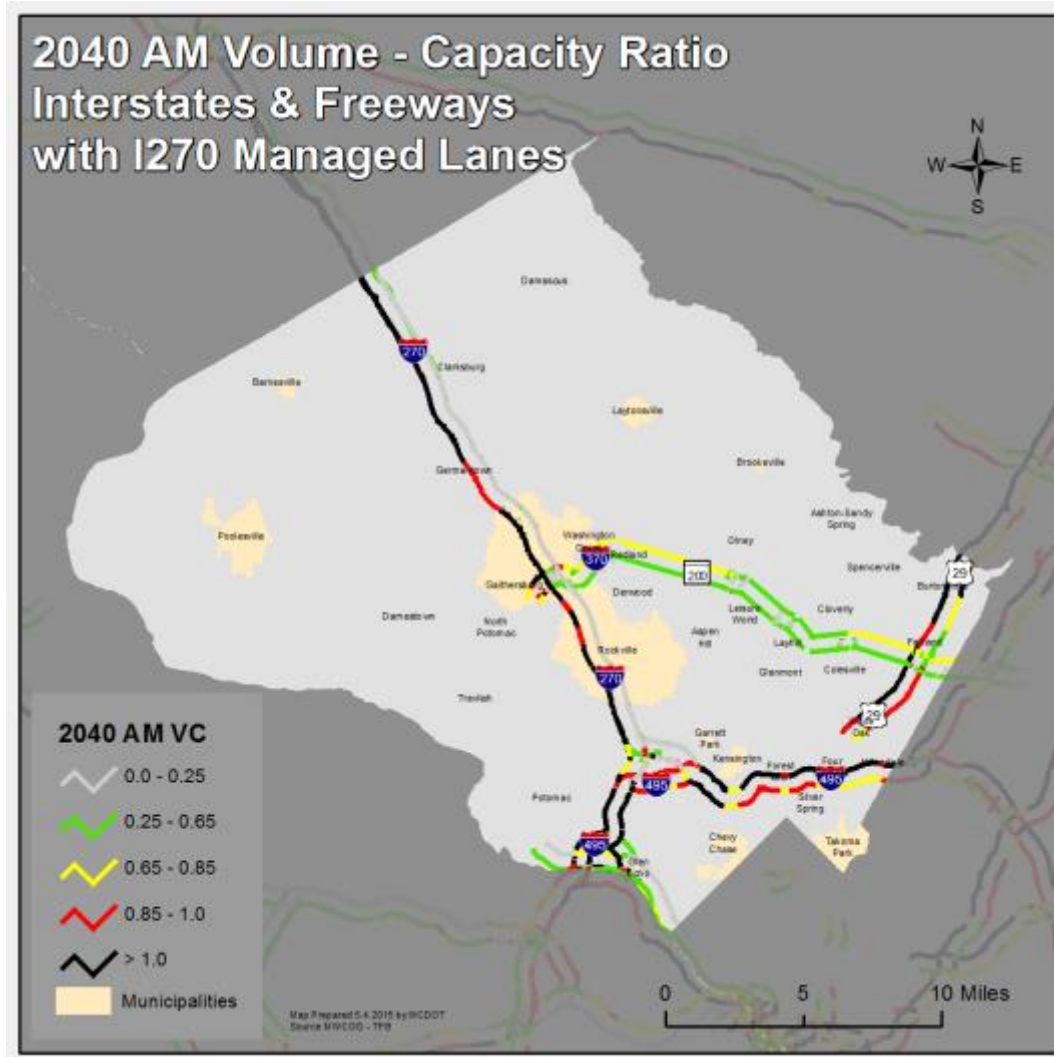
Employer	Product/Service	Employment
Giant Food	Groceries	3,000
Verizon	Telecommunications	2,900
National Institute of Standards and Technology*	HQ / testing and standards; R&D	2,700
U.S. Nuclear Reg. Comm.*	HQ / utilities regulation	2,700
GEICO	HQ / insurance	2,300
MedImmune	HQ / pharma., R&D, mfg.	2,300
Westat	HQ / research, surveys	2,300
Suburban Hospital	Medical services	1,800
U.S. Department of Energy*	Energy devt., conservation	1,800
Henry M. Jackson Found. for the Adv. of Military Medicine	HQ / R&D in the social sciences and humanities	1,800

Excludes post offices, state and local governments; includes higher education
 * Employee counts for federal and military facilities exclude contractors to the
 extent possible; embedded contractors may be included

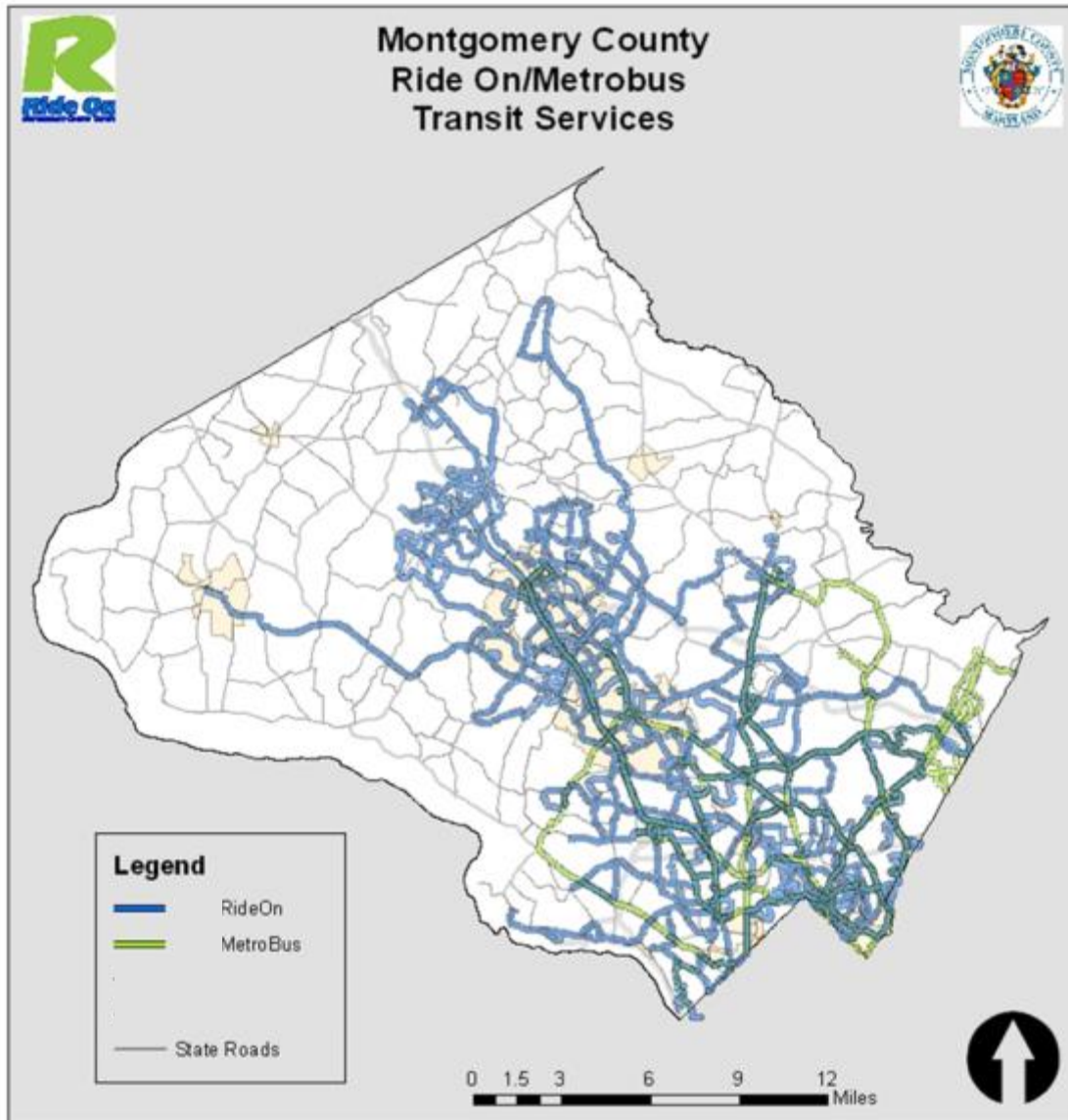
Mobility

- 2013 Annual Vehicle Miles Travelled
 - 2014 Statewide: 56.4 billion
 - 2014 County: 7.4 billion (13% of statewide total, 17% of Urban VMT)
- Top Statewide Congested SHA Roadway Segments in 2013 *(source: 2013 SHA mobility report)*
 - 8 of top 10 congested segments in a.m. peak hour
 - 9 of top 10 congested segments in p.m. peak hour

Travel Model Projections 2015, 2025 & 2040



Existing Bus Transit Service and Use



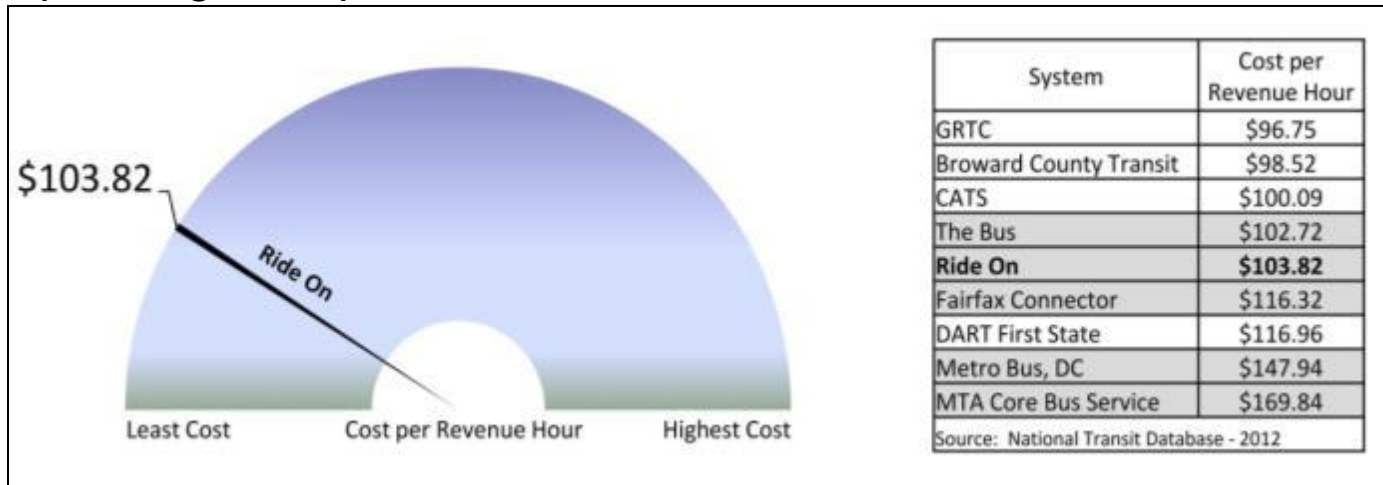
Ride On is one of the largest suburban bus systems in the country.

- 27 million passengers per year
- Rider Demographics
 - 58% are women
 - 57% age 24-54
- Ethnic Background
 - 42% are Black /African descent
 - 22% are Hispanic
- 76% have less than \$50,000 household income
- 64% use Ride On daily

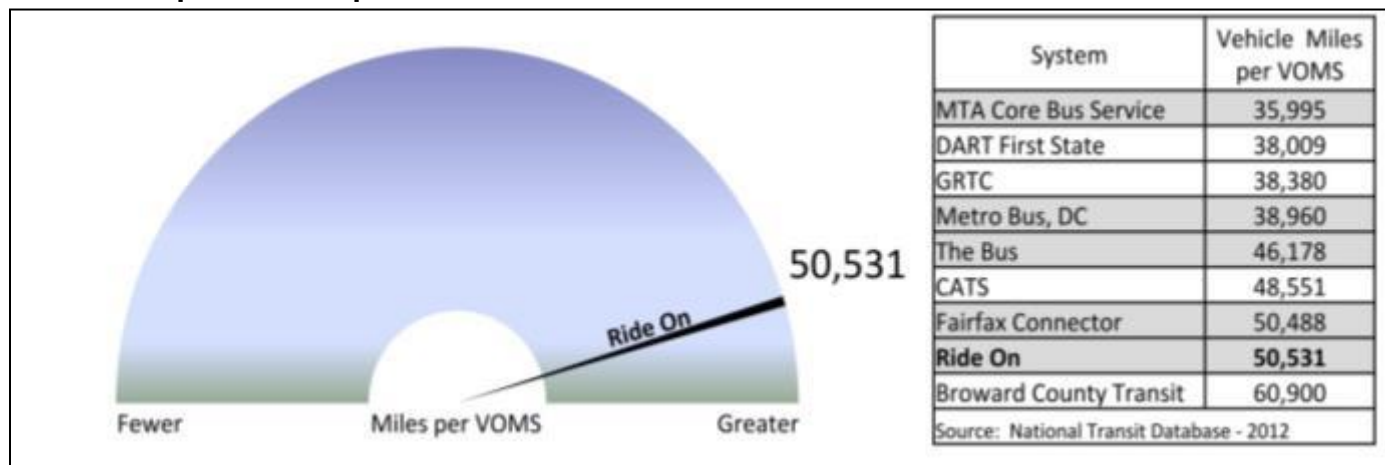
Source: 2014 Ride On Rider Survey

Existing Bus Transit Service and Use *(continued)*

Operating Cost per Revenue Hour



Miles Operated per Vehicle



2. Background and Planning Framework

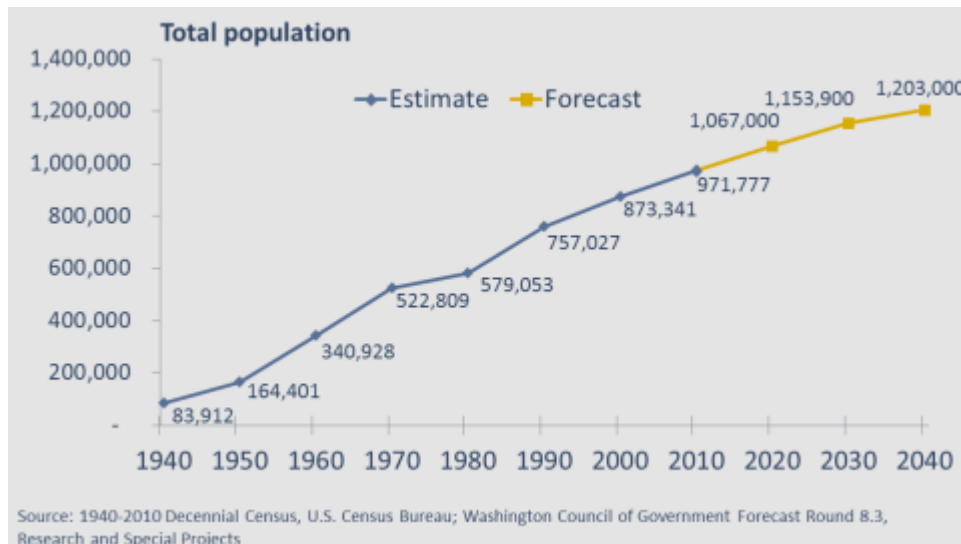


Land Use & Master Plan Development Triggers

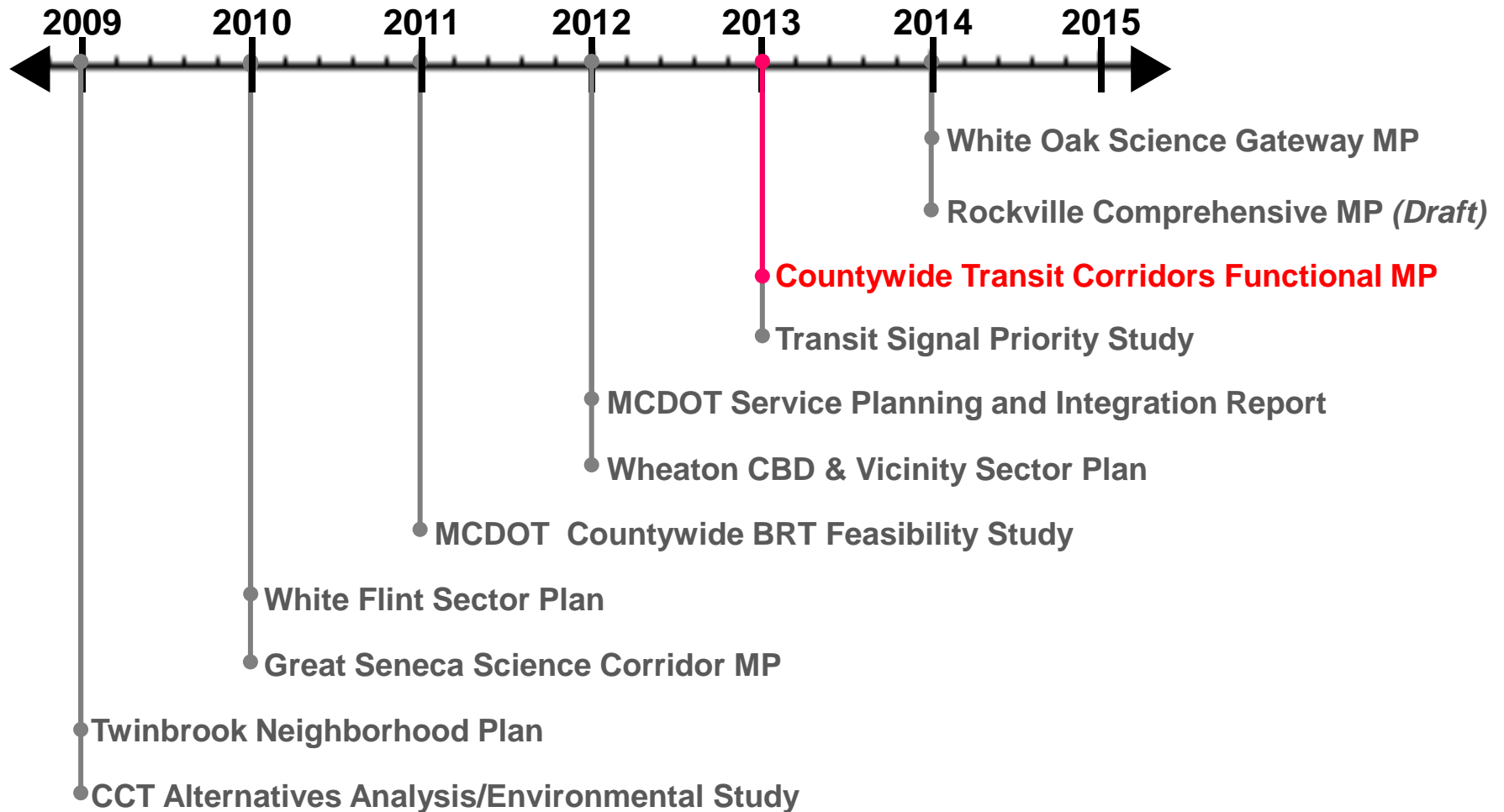
- Smart Growth and Transit Oriented Development (TOD)
- Approved and unbuilt development “pipeline” (February 2015)

Unbuilt <u>Dwelling Units</u>	Unbuilt Non-Residential <u>Square Feet</u>	Equivalent <u>Potential Jobs</u>
36,315	28,503,377	96,905

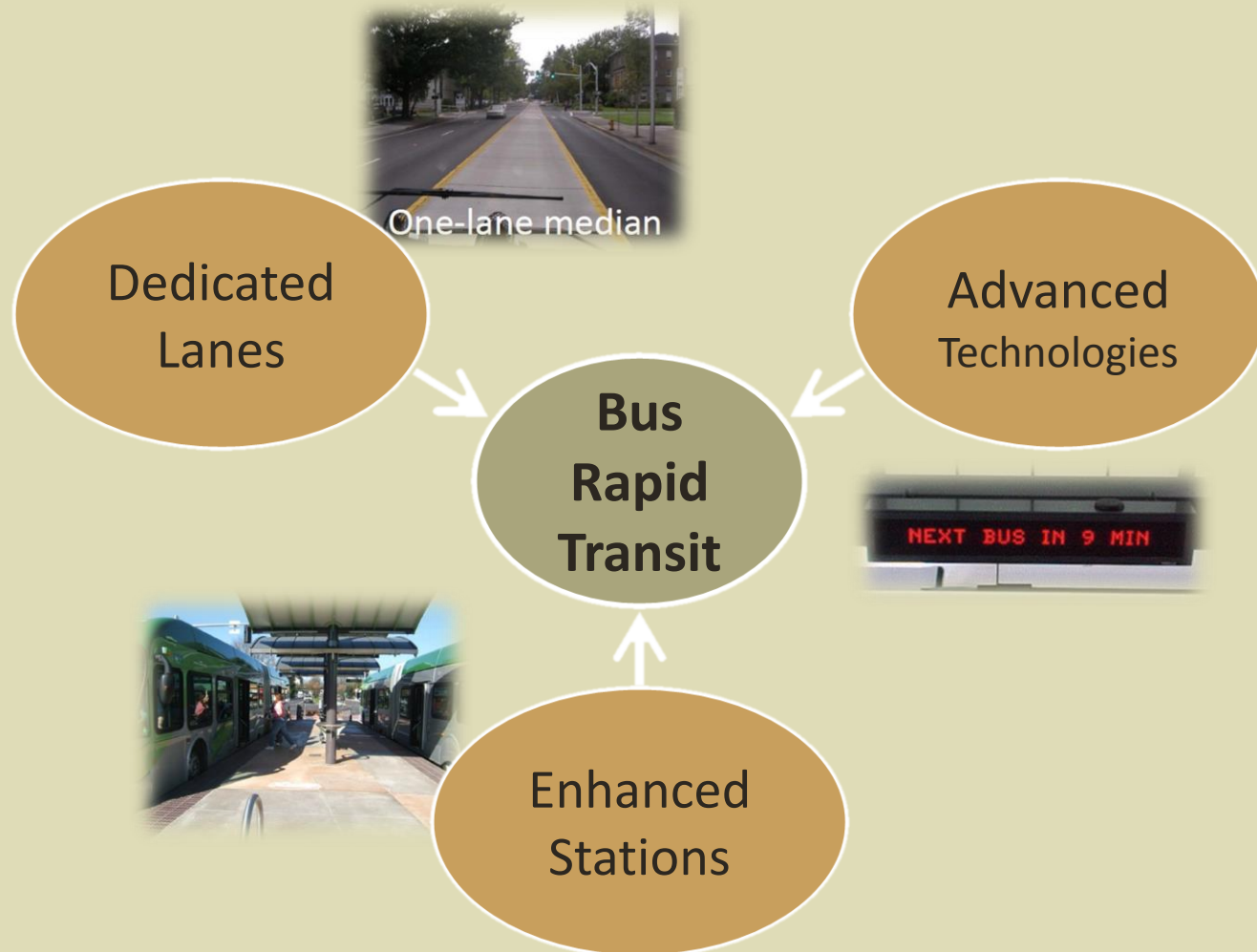
- Examples: Great Seneca Science Corridor (GSSC); White Flint; White Oak; Wheaton; and Metro Station CBD's
- Development and redevelopment potential tied to transit;
- Master plan phasing triggers i.e. CCT & GSSC; White Flint & NADMS
 - Targets are monitored biennially and have infrastructure and mode share requirements



Chronology of Master Plans and Key Studies



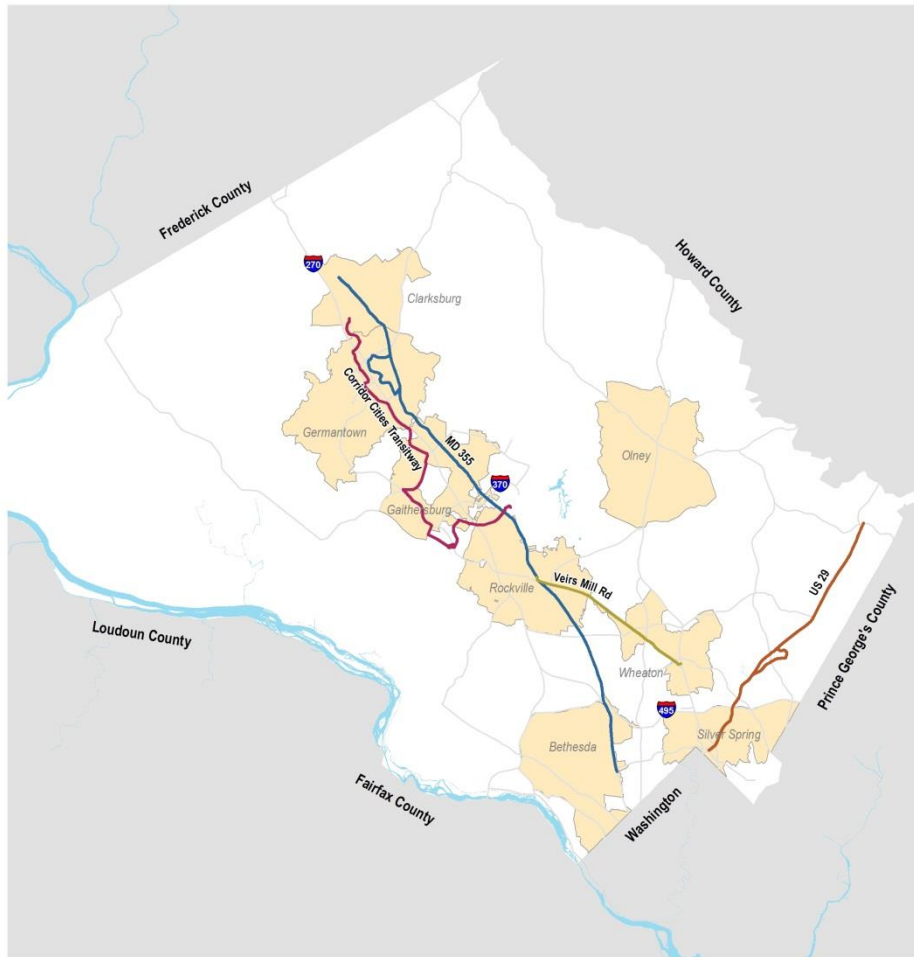
What is Bus Rapid Transit (BRT)?



What is BRT?



The Countywide Transit Corridors Functional Master Plan



Focus of Master Plan

- Proposes 102-mile rapid transit network with 125 stations
- Determines right-of-way reservations for transit corridors, including dedicated bus lanes
- Addresses accommodation for pedestrians and bicyclists

Not in Master Plan

- Operational issues:
 - ✓ BRT running ways and rerouting of local bus system
 - ✓ Span of service and BRT headways
- Land use changes

** including the CCT corridor*



RTS Corridor

- Corridor Cities Transitway
- MD 355
- US 29
- Veirs Mill Rd

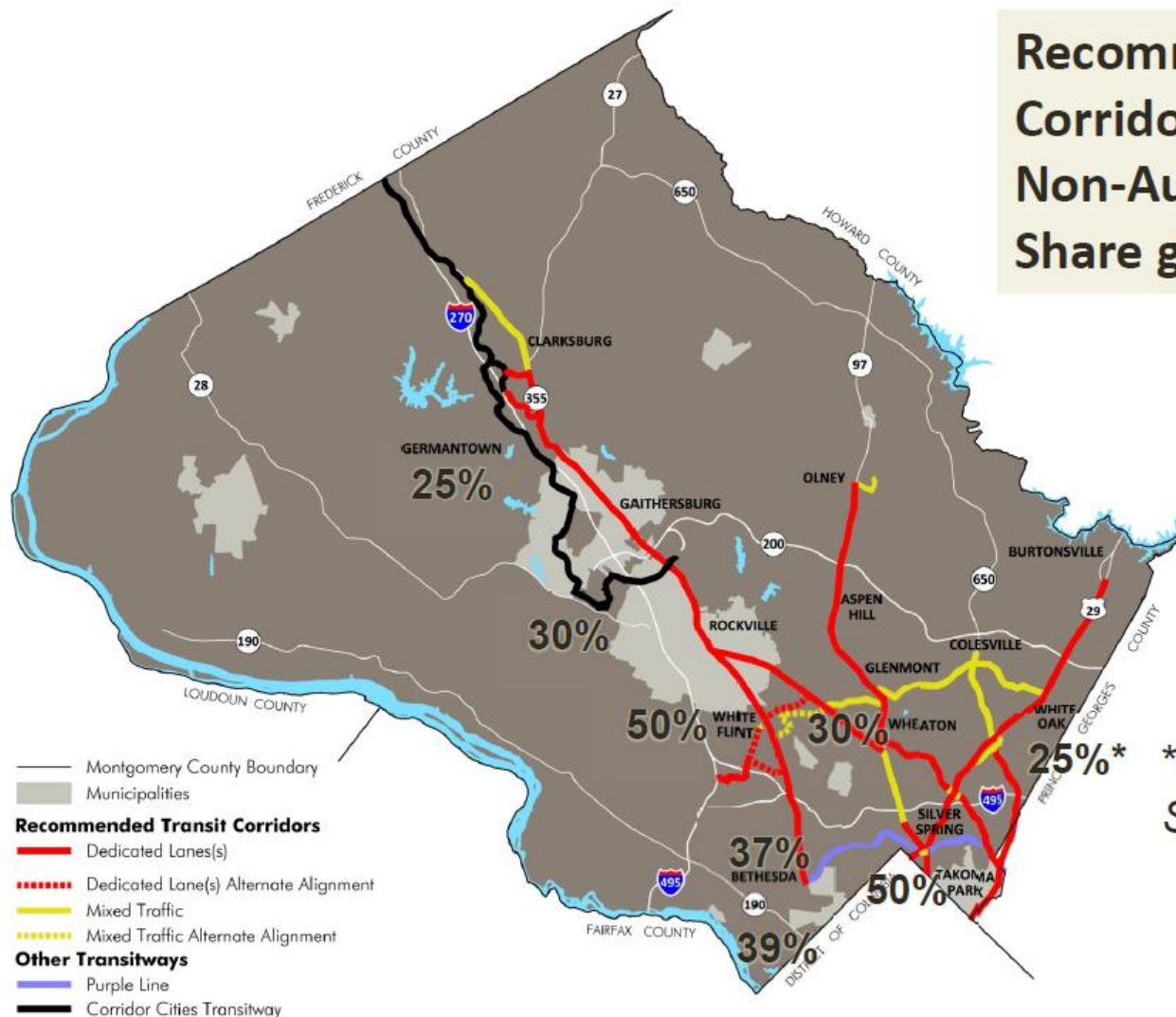
0 2 4 8 12 Miles



Approved in 2013

RTS and Non-Auto Driver Mode Share Goals

Recommended Transit Corridor Network w/
Non-Auto Driver Mode Share goals



** per White Oak
Science Gateway
Master Plan*

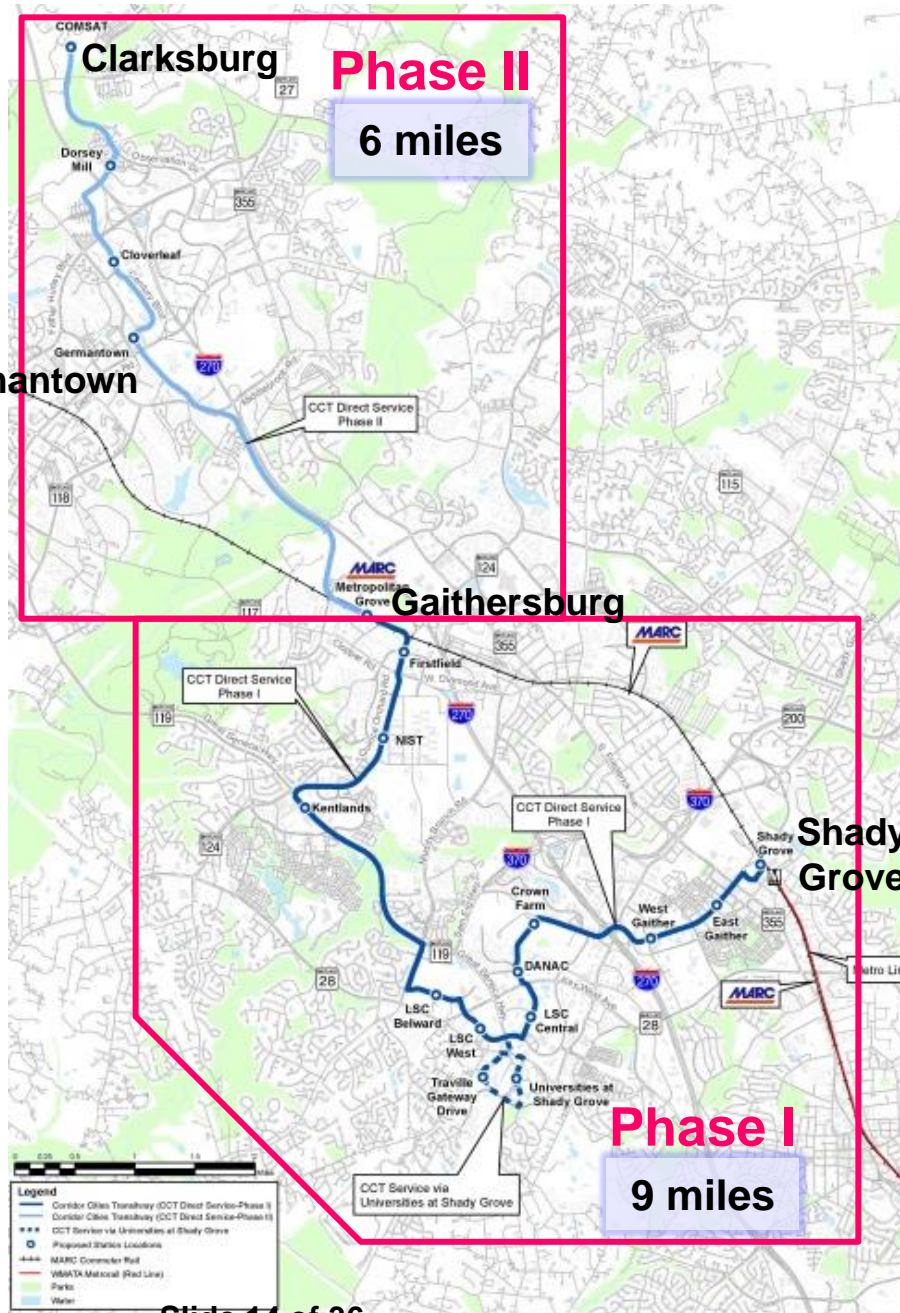
3. Corridors in Detail

1. Corridor Cities Transitway



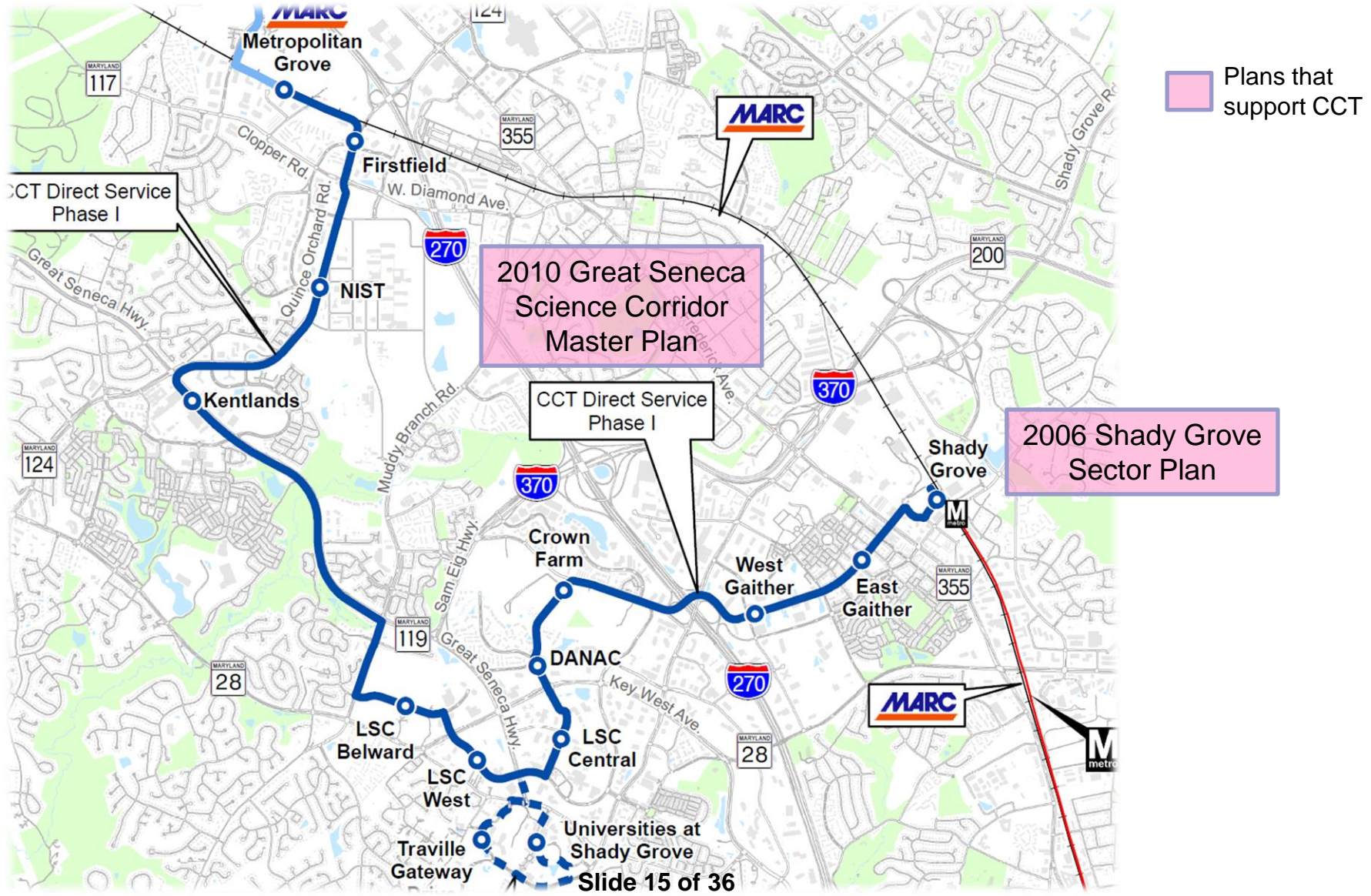
Corridor Cities Transitway

Germantown



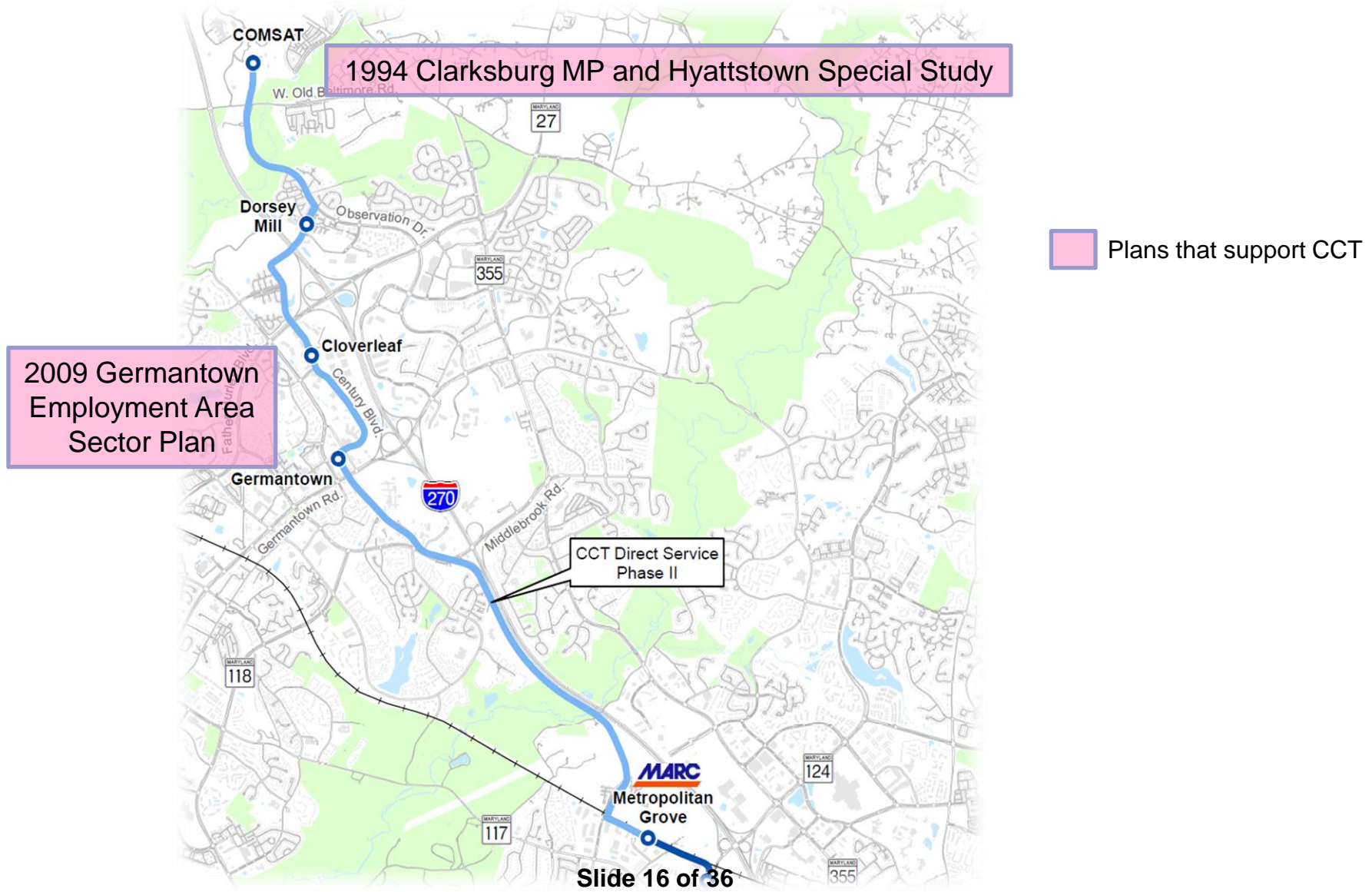
Corridor Cities Transitway

CCT Phase I and Master Plans



Corridor Cities Transitway

CCT Phase II and Master Plans



Corridor Cities Transitway

Latest Designs



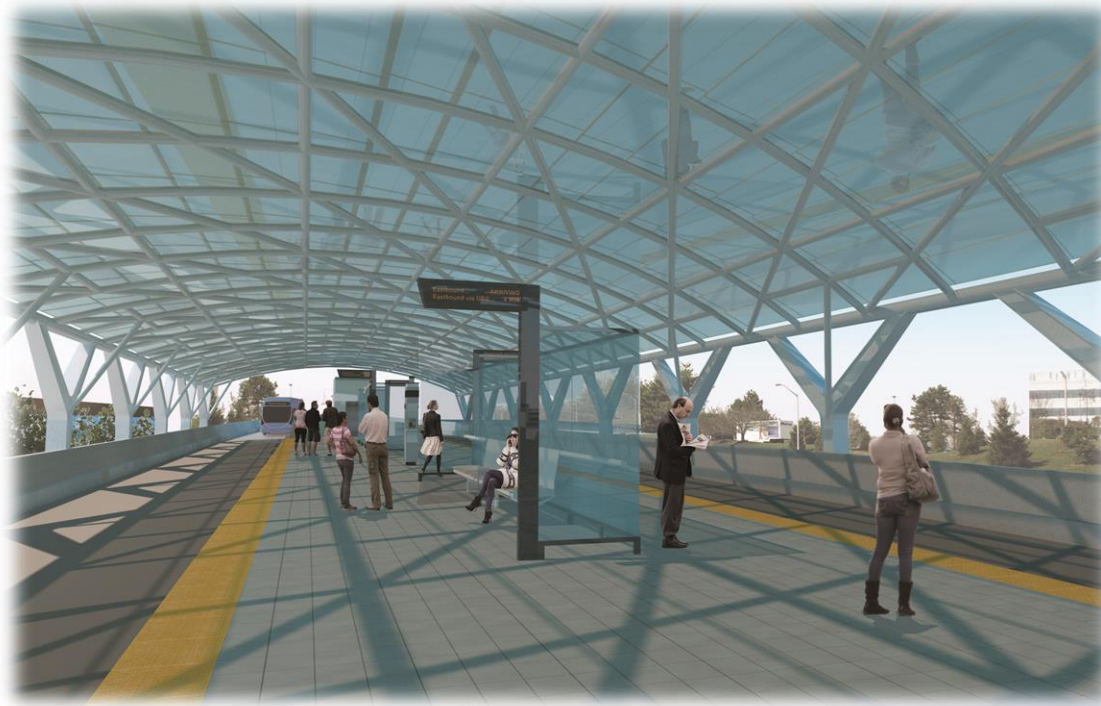
East Gaither Station
(King Farm)



Universities of
Shady Grove Station

Corridor Cities Transitway *(continued)*

Latest Designs



**Kentlands
Station**



Corridor Cities Transitway

Latest Status, Cost Estimates, Funding, and Schedule

2012 Estimated Cost for Phase I: \$545 M

2012 Estimated Cost for Phase II: \$283 M

Schedule:

- ❑ **August 2014:** Draft Environmental Assessment (EA) and 15% Design Submittal
- ❑ **Fall 2015:** EA Release/Public Hearing
- ❑ **Fall 2015:** 30% Design Submittal
- ❑ **Winter 2015/2016:** FONSI
- ❑ **Winter 2015/2016:** Initiate design activities
- ❑ **Winter 2016/2017:** Begin Right-of-Way Acquisition/Permitting/Agreements
- ❑ **Spring 2018:** Begin Construction
- ❑ **2021:** Begin Service

State funded for all design and some ROW acquisition; No funding for construction

3. Corridors in Detail

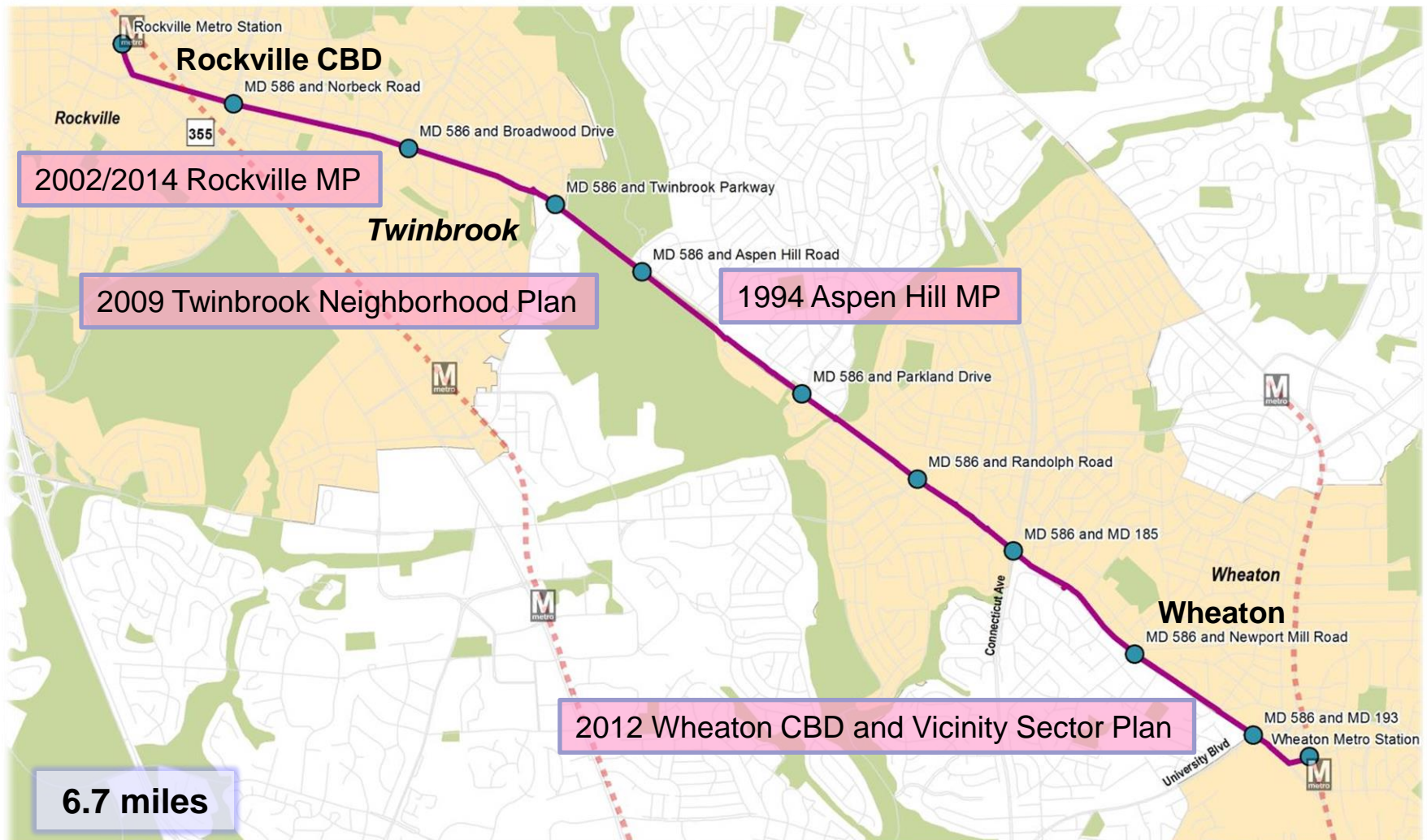
2. MD 586 (Veirs Mill Rd)



MD 586 (Veirs Mill Rd)

Context and Master Plans

Plans that support RTS



MD 586 (Veirs Mill Rd)

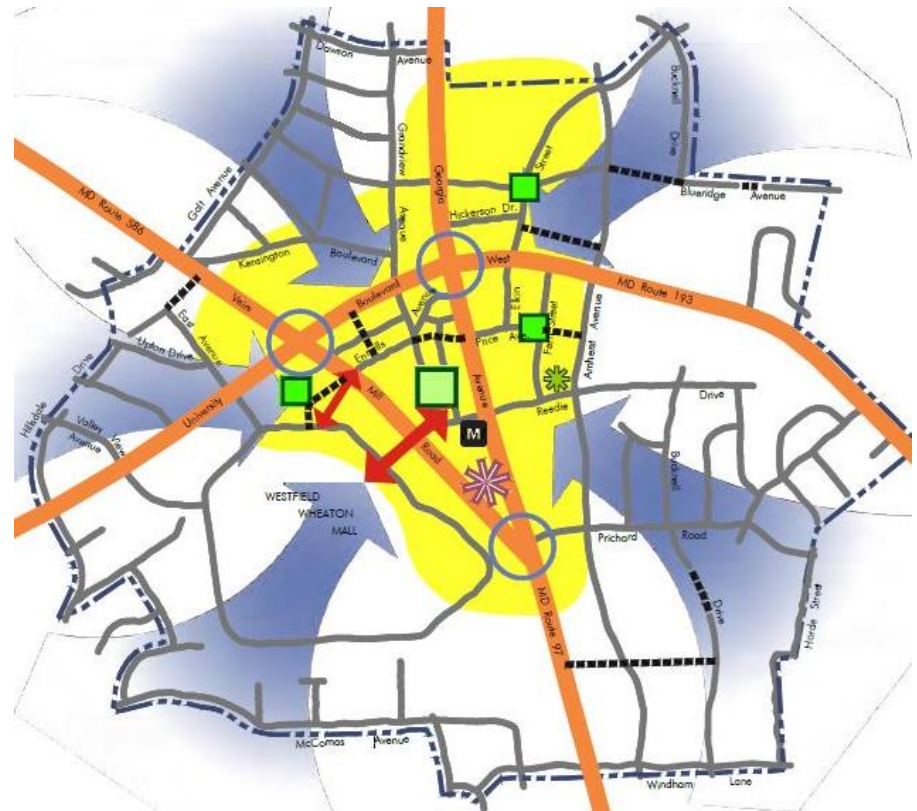
Wheaton CBD and Vicinity Sector Plan, 2012

Capitalizes on Wheaton's role as a regional transit hub to promote high-density, high-quality growth and redevelopment in the business core.

Recommends developing high quality, BRT on Veirs Mill Road as part of a larger network.

Establishes a 30% NADMS goal.

MCDOT leading PPP redevelopment project at Metro station.



MD 586 (Veirs Mill Rd)

Latest Status, Funding, and Schedule

- \$6 million County funds for planning
- NEPA planning study being led by SHA
- Locally Preferred Alternative expected Winter 2016
- Next step: Preliminary Design (*pending funding availability*)

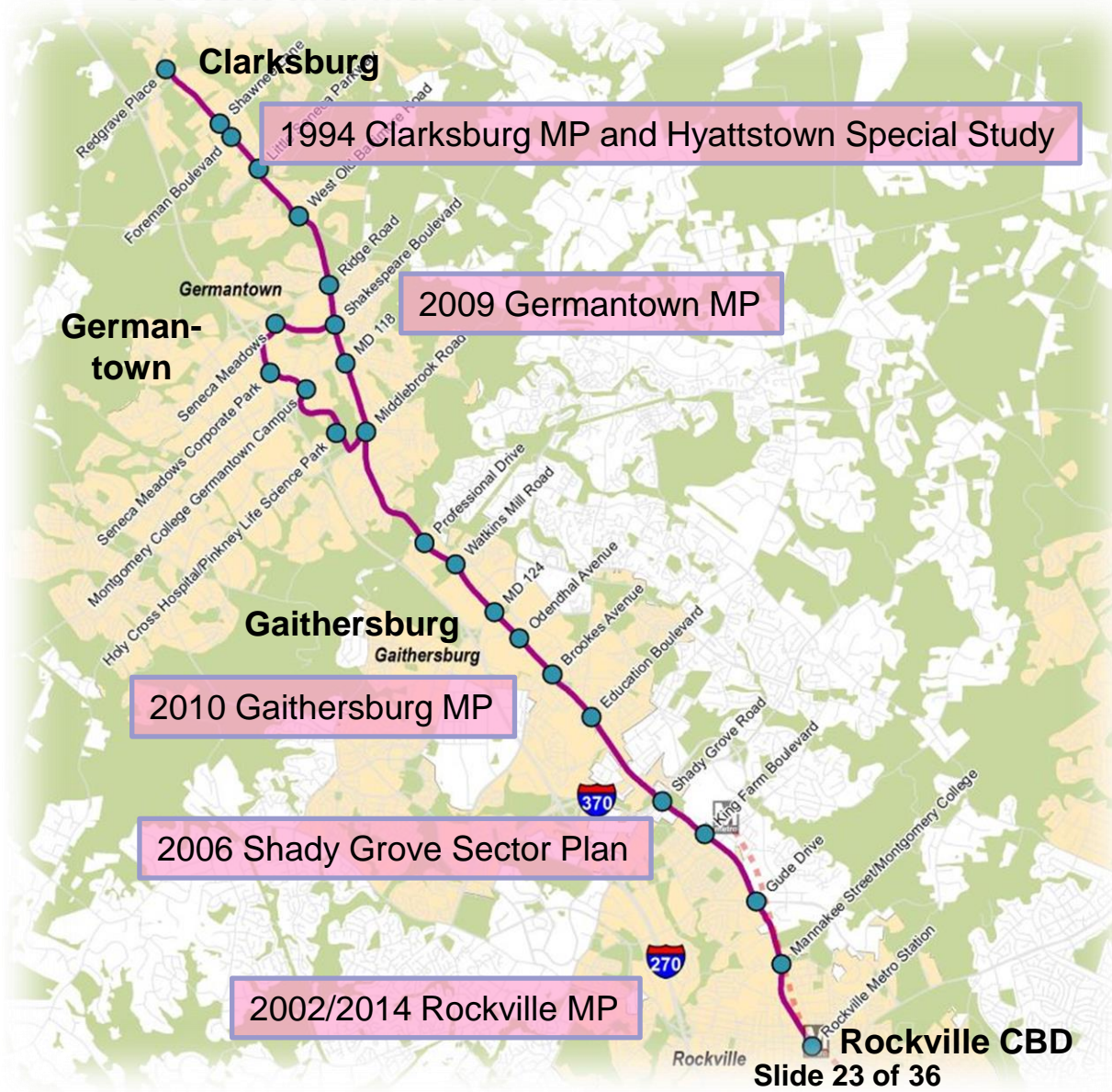
3. Corridors in Detail

3. MD 355



MD 355 (Wisconsin Ave - Rockville Pike - N. Frederick Rd)

Context and Master Plans



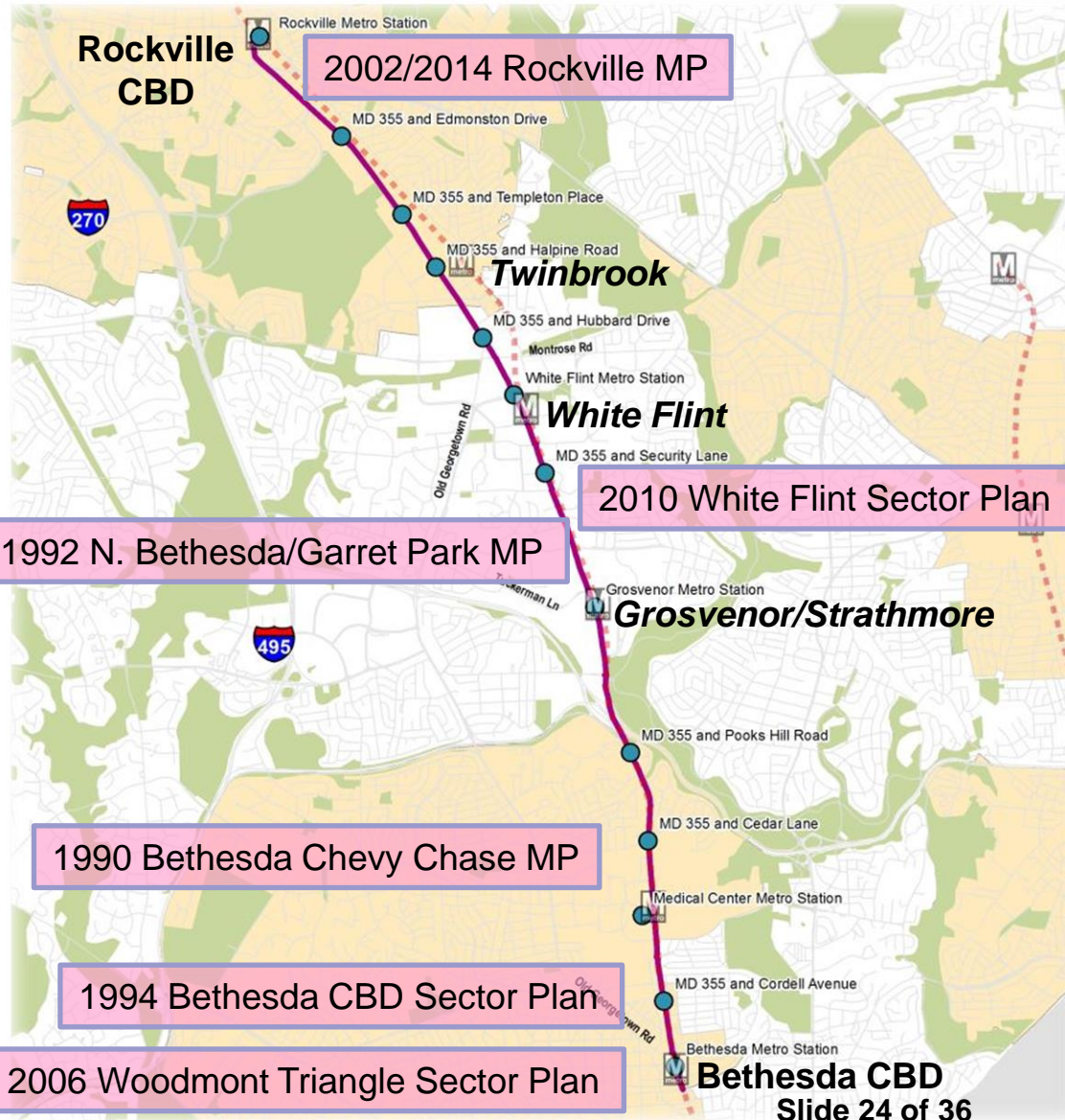
NORTH CORRIDOR

14 miles

Plans that support RTS

MD 355 (Wisconsin Ave - Rockville Pike - N. Frederick Rd)

Context and Master Plans



SOUTH CORRIDOR

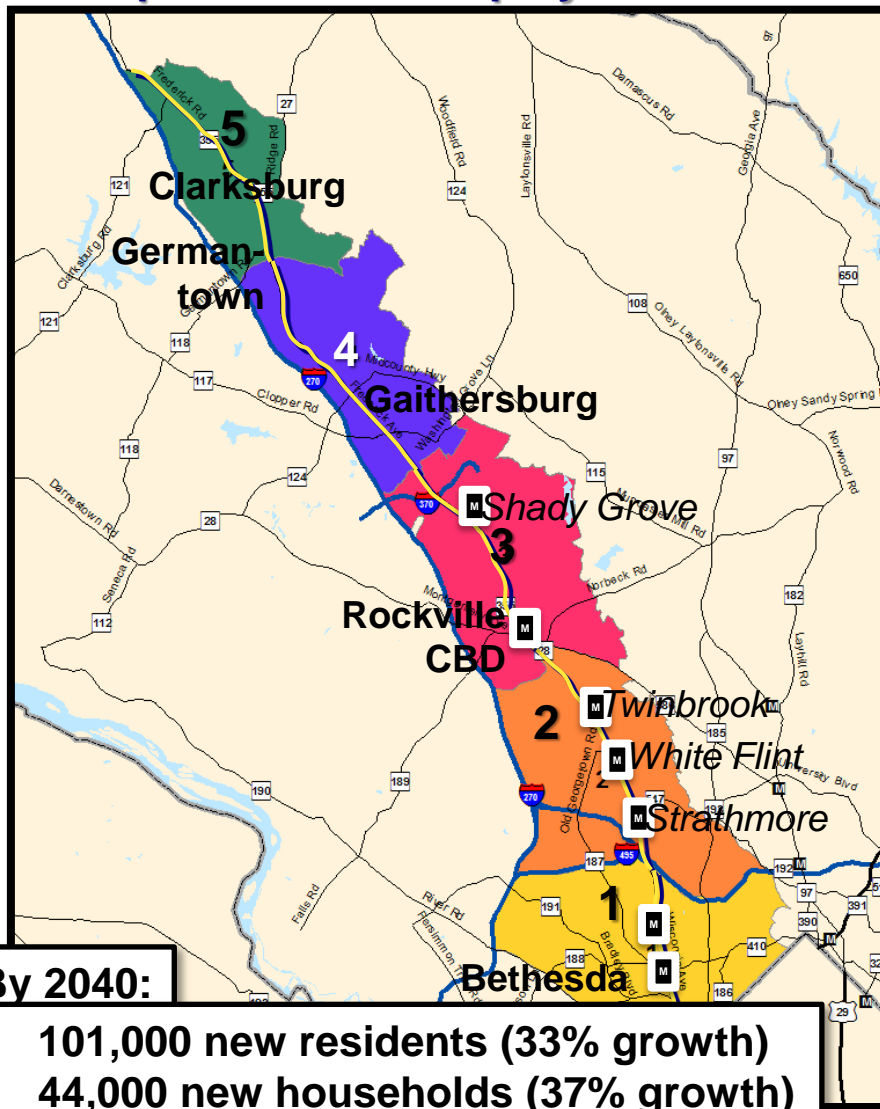
8 miles

22 miles (whole corridor)

Plans that support RTS

MD 355 (Wisconsin Ave - Rockville Pike - N. Frederick Rd)

Population and Employment



By 2040:

- 101,000 new residents (33% growth)
- 44,000 new households (37% growth)
- 86,000 new jobs (31% growth)

Number of Residents

Dist	2014	2040	Growth	Percent Growth
1	87,900	101,800	13,900	15.9%
2	80,200	122,700	42,500	53.0%
3	48,000	68,000	20,000	41.5%
4	66,000	76,200	10,200	15.5%
5	26,000	40,600	14,600	56.2%
Total	308,100	409,300	101,200	32.9%

Number of Jobs

Dist	2014	2040	Growth	Percent Growth
1	94,500	114,100	17,600	20.1%
2	84,600	122,100	37,500	46.7%
3	61,300	78,700	17,400	36.3%
4	30,600	39,500	8,900	13.4%
5	9,800	14,800	5,000	19.4%
Total	282,800	369,200	86,300	28.0%

Source: MWCOC Round 8.3 Cooperative
Land Use Forecasts

MD 355 (Wisconsin Ave - Rockville Pike - N. Frederick Rd)

Latest Status, Funding, and Schedule

- \$6 million State funds for planning (SHA)
- Corridor planning study began in 2014
- Corridor planning study estimated completion Summer 2016
- Study to result in alternatives carried forward into more detailed planning, environmental documentation, and design

3. Corridors in Detail

4. **US 29** (*Colesville Rd - Columbia Pike*)



US 29 (Colesville Rd - Columbia Pike)

Context and Master Plans

12 miles

Burtonsville

2012 Burtonsville Crossroads Neighborhood Plan

1997 Fairland MP

2014 White Oak Science Gateway MP

1997 White Oak MP

1997 Four Corners MP

White Oak

Four Corners

Silver Spring CBD

2000 N. and W. Silver Spring MP

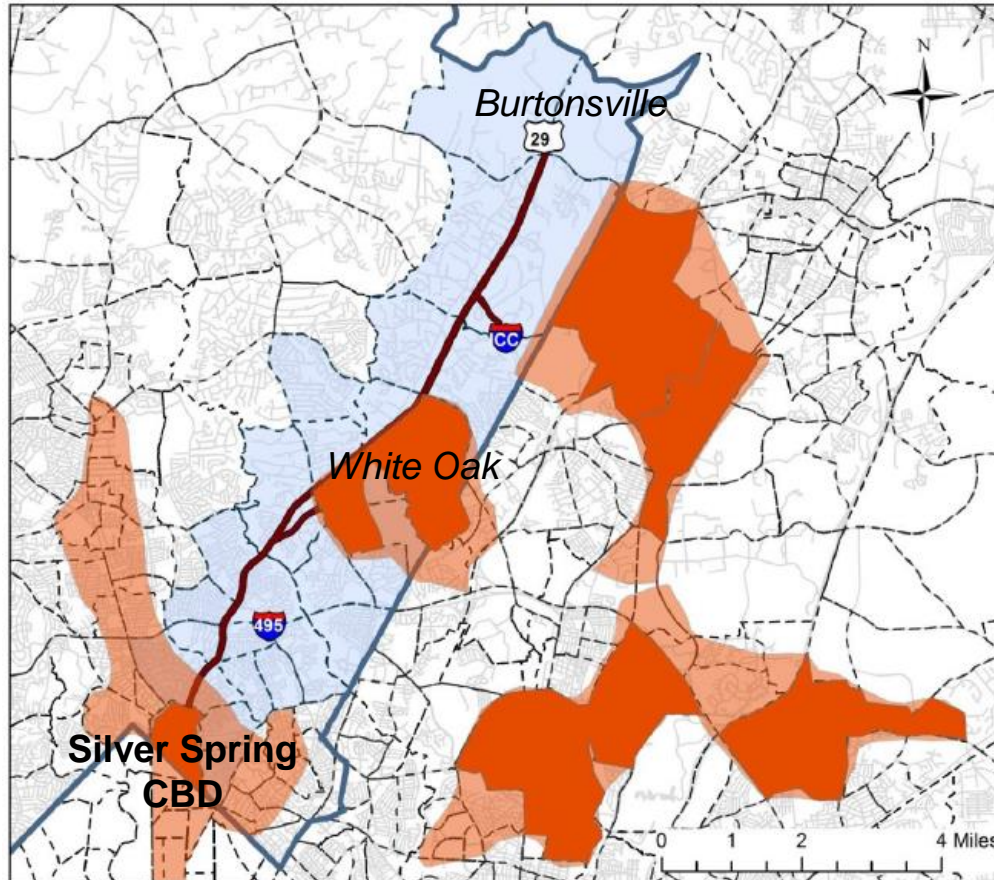
2001 Silver Spring CBD Sector Plan

Prince George's County

Plans that support RTS

US 29 (Colesville Rd - Columbia Pike)

Population and Employment



Features

- Traffic Analysis Zones in Study Area
- TPB Traffic Analysis Zones
- Montgomery County
- Study Corridor

- Activity Clusters
- Activity Centers

US 29 BRT Corridor Planning Study

	Households	Jobs
2014	52,100	67,400
2040	61,00	120,000
Growth	17%	78%

US 29 (Colesville Rd - Columbia Pike) **White Oak Science Gateway MP, 2014**

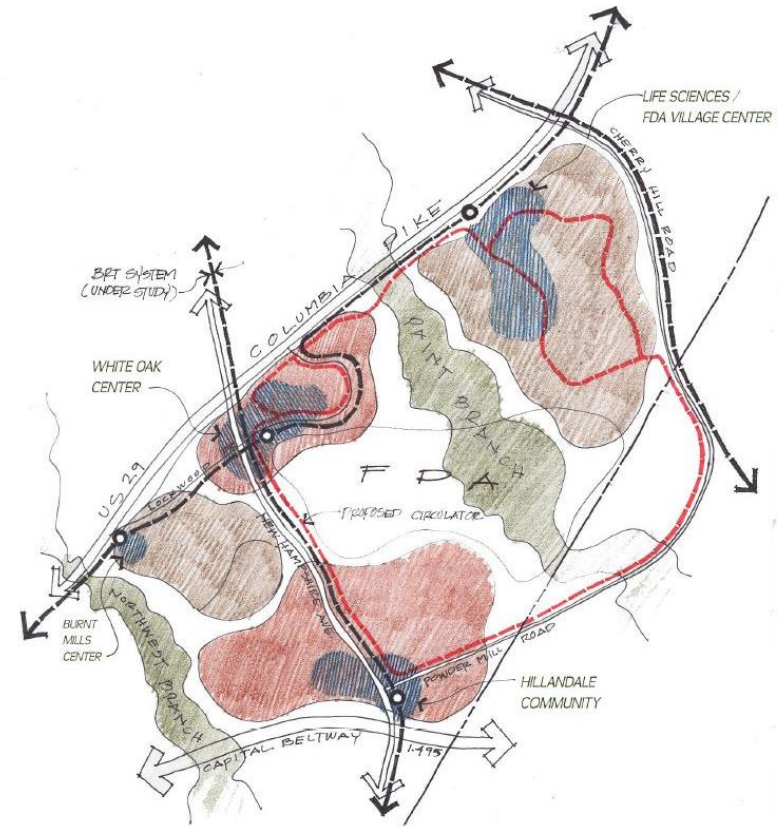
Conventional, auto-dependent suburban shopping centers and business evolve into vibrant, mixed-use, transit-served nodes, with the Life Sciences/FDA Village Center as a community focal point.

A Bus Rapid Transit system is essential to achieve the vision of this Master Plan.

Total Development

15,688 residential dwelling units

25.4 million sq. ft. commercial



	Existing	Master Plan Scenario
Residential	7,118 units	15,688 units
Commercial	11.2 million sq. ft.	25.4 million sq. ft.
Jobs	27,688	70,312

US 29 (Colesville Rd - Columbia Pike)

Video Presentation

US 29 (Colesville Rd - Columbia Pike)

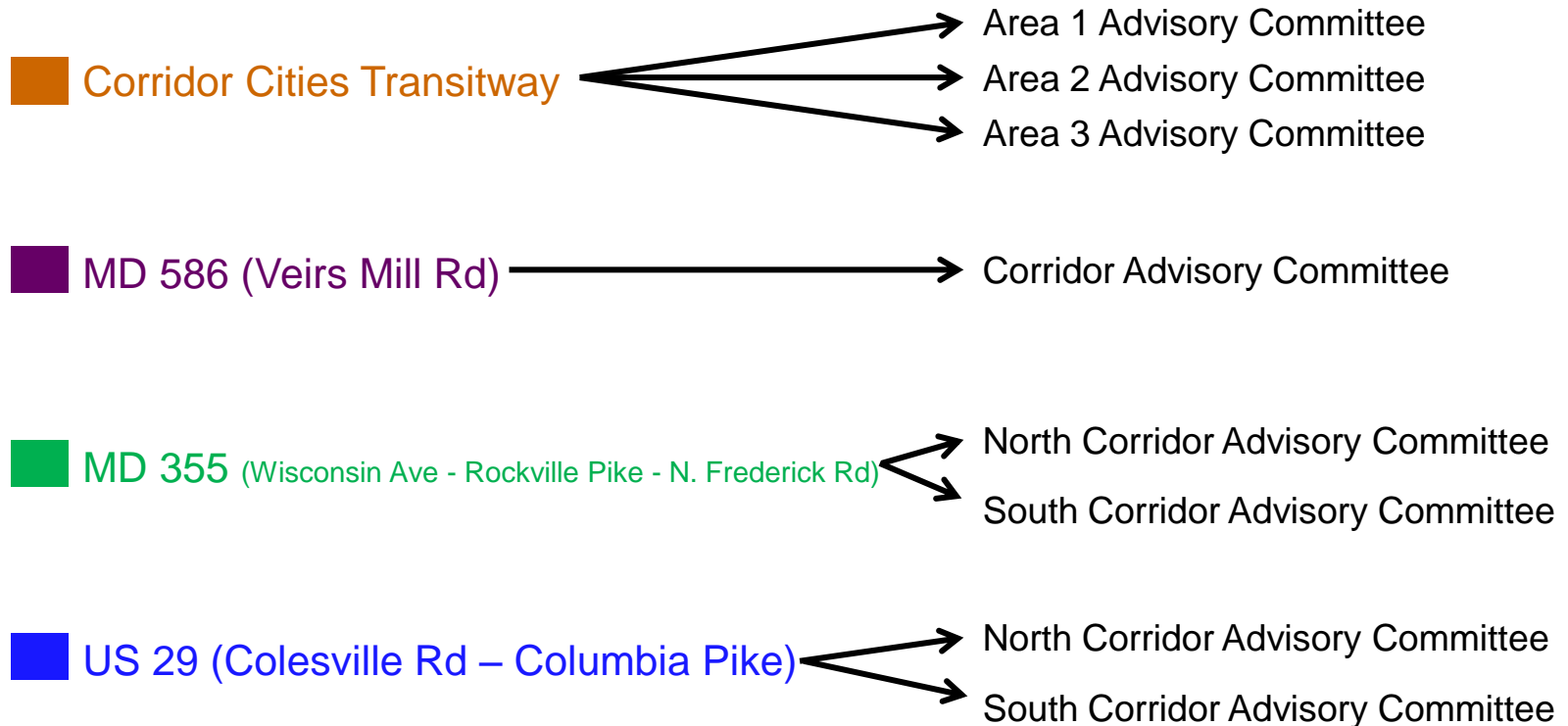
Latest Funding, Status, and Schedule

- \$3.5 million State funds for planning (SHA)
- Corridor planning study began in 2014
- Corridor planning study estimated completion Summer 2016
- Study to result in alternatives carried forward into more detailed planning, environmental documentation, and design

4. Complementary Initiatives



Advisory Committees



8 advisory committees

180 active members

Complementary Initiatives

- RTS
- Smart Growth & TOD
- Transit Authority
- Ride On Plus
- Bicycle & Pedestrian Safety
- Bike Share
- Bus Stop Improvements
- **Transportation Management Districts & Travel Demand Management**
- Urban Road Code Update
- Signal Technologies
- Streamlining Development Approval Process



5. Funding and Partnership



Funding Recap

#	Project	Planning	Design	Right-of-Way Acquisitions	Cons- truction
1	CCT – Phase I	\$ 45.8 M	\$ 35.0 M	\$ 35.0 M	UNFUNDED
2	MD 586 (Veirs Mill Rd)	\$ 6.0 M	UNFUNDED		
3	MD 355 (W. Ave, R. Pike, N. F. Rd)	\$ 6.0 M			
4	US 29 (Colesville Rd, Columbia Pike)	\$ 3.5 M			

MCDOT'S Partnership with State

■ State Transportation Participation Agreements

- County contributing more than \$50 million to major state projects
- \$6.5 million - 11 local intersection projects

Major Projects	Total County Contribution
MD 586/Veirs Mill Road BRT (Planning)	\$6 million
I-270/Watkins Mill Bridge (Design only)	\$2.5 million
MD 355/Montrose Parkway Phase 2 (Design only)	\$9 million
MD 97 - 16th Street to Forest Glen (Planning)	\$3 million
Forest Glen Metro Station Access - Grade separation (Design)	\$2 million
MD 97/Brookeville Bypass (Design & R/W)	\$10 million
MD 124 - Mid County to Airpark Road (Design & R/W)	\$5 million
MD 97 at Randolph Road Interchange (RW & CO)	\$14.4 million

■ Signals Maintenance 556 SHA-owned County-maintained 934 total County maintained signals

■ Over \$157 million in local funding toward the Purple Line

6. Bus Tour



6. Bus Tour

